

## **SMALL MEMORY CARD**

### **BACKGROUND OF THE INVENTION**

#### **FIELD OF THE INVENTION**

The present invention relates to a small memory card with a monitor, and  
5 more particular to a small memory card could be recognized the operating side  
easily.

#### **DESCRIPTION OF THE RELATED ART**

Referring to FIG. 1 showing the up-side view of a prior memory card, which  
includes a substrate 10 and at least one memory chip 16, the substrate 10 is  
10 formed with a plurality of golden gingers 12, as insert the substrate 10 into the  
electric device, the plurality of golden fingers 12 may be electrically connected to  
the electric device, and the substrate 10 is formed with a gap 14, which is the  
inserting aspect, the memory chip 16, which is mounted on the substrate 10,  
electrically connected to a plurality of golden fingers 12.

15 But, the above-mention small memory card need to be cut and is formed  
with a gap 14, the manufacturing process is inconvenient and the manufacturing  
cost will increase, moreover, if the substrate 10 was cut imperfectly, the substrate  
10 is unusable.

#### **SUMMARY OF THE INVENTION**

20 The object of the present invention is to provide a small memory card with a

monitor may be recognized the operating side easily.

To achieve the above-mentioned object, the present invention includes a substrate, at least one memory chip, at least one monitor, and a glue layer, the substrate is formed with an upper surface and a lower surface, the upper surface is formed with a plurality of connected points and a plurality of golden fingers, and the substrate is used to set in the electric device, so that the plurality of golden fingers may be electrically connected to the electric device, the memory chip, which is mounted on the upper surface of the substrate, electrically connected to a plurality of connected points of the upper surface of the substrate, the monitor that is mounted on the side of the upper surface of the substrate, is represent the aspect and location of the golden fingers, the glue layer encapsulated and protected the memory chip.

According to one aspect of the present invention, the memory card may be recognized the aspect of the golden fingers, so the small memory card may be operated conveniently.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 is a schematic illustrates showing a conventional small memory card structure.

FIG. 2 is an up-side view showing a small memory card with monitor of the present invention.

FIG. 3 is a cross-sectional view of FIG.2.

FIG.4 is another up-side view of the present invention.

FIG.5 is a cross-section view of FIG.4.

### **DETAILED DESCRIPTION OF THE INVENTION**

FIG.2 and FIG.3 are showing an up side and cross-section views showing a  
5 small memory card with monitor of the present invention, which included a  
substrate 20, a memory chip 22, a monitor 24 and a glue layer 26.

The substrate 20 is formed with an upper surface 28 and a lower surface 30,  
the upper surface 28 that is formed with a plurality of connected points and a  
plurality of golden fingers 34, electrically connected to a plurality of connected  
10 points, the substrate 20 is used to set in an electric device, so that the plurality of  
golden fingers 34 may be electrically connected to the electric device.

The memory chip 22 that is mounted on the upper surface 28 of the  
substrate 20, electrically connected to a plurality of connected points 32 of the  
upper surface 28 of the substrate 20 by a plurality of wires 36.

15 The monitor 24, which is a LED mounted on the side of the upper surface  
28 of the substrate 20, is used to recognize the aspect of the plurality of golden  
fingers.

The glue layer 26 may be transparent glue, the glue layer 26 is encapsulated  
the memory chip 22 and the monitor 24. And the monitor 24 is revealed besides  
20 the glue layer 26, so that the light of the monitor 24 will spread out and the  
location of the plurality of golden fingers will be recognized.

Referring to FIG.4 and FIG.5 are schematics illustrate the small memory card with a monitor of the present invention, the memory card includes a substrate 20, a memory chip 22, a monitor 24 and a glue layer 26.

5 The substrate 20 is formed with an upper surface 28 and a lower surface 30, the upper surface 28, which is formed with a plurality of connected points 32 and a plurality of golden fingers 34, electrically connected to the plurality of connected points 32, the substrate 20 is used to arrange in an electric device, so that the plurality of golden fingers 34 of the upper surface of the substrate may be electrically connected to the electric device.

10 The glue layer 26 is encapsulated the memory chip 22 then mounted on the upper surface 28 of the substrate 20, the glue layer 26 is electrically connected to the plurality of connected points 32 of the substrate 20 by the plurality of pins 38.

The monitor 24, in the embodiment is a LED, which is mounted on the side of the upper surface 28 of the substrate 20, so that the aspect and location of the 15 plurality of the golden fingers 34 may be recognized.

Thus, the small memory card is mounted a monitor 24 may be recognized the aspect and location of the golden fingers, so that the users may recognized the operating aspect conveniently.

20 While the invention has been described by way of an example and in terms of a preferred embodiment, it is to be understood that the invention is not limited to the disclosed embodiment. To the contrary, it is intended to cover various

modifications. Therefore, the scope of the appended claims should be accorded the broadest interpretation so as to encompass all such modifications.

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